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RELIABILITY PREDICTION

Model : QP-375 Data:2002-03-29

Style	Part Type	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	7	0.003700	10	0.259000	1.967
9.1	Resistor-Film, Chip (RM)	138	0.003700	10	5.106000	38.771
9.1	Resistor-Wirewound Power (RW)	3	0.008500	10	0.255000	1.936
9.1	Resistor-Film, Variable (RVC)	4	0.040000	10	1.600000	12.149
10.1	Capacitor-Metal, Plastic (CH)	6	0.000510	10	0.030600	0.232
10.1	Capacitor-Ceramic(Gen.) (CK)	20	0.001700	10	0.340000	2.582
10.1	Capacitor-Ceramic chip (CDR)	34	0.003500	10	1.190000	9.036
10.1	Capacitor-Aluminum Dry (CE)	18	0.001300	10	0.234000	1.777
6.1	Diode-Switching	33	0.000940	8	0.248160	1.884
6.1	Diode-Fast Recovery Power Rectifier	6	0.023000	8	1.104000	8.383
6.1	Diode-Power Rectifier / Schottky Power	8	0.002800	8	0.179200	1.361
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	2	0.003300	8	0.052800	0.401
6.1	Diode-Transient Suppressor/Varistor	2	0.002900	8	0.046400	0.352
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.152
6.3	Transistor-NPN/PNP	6	0.000150	8	0.007200	0.055
6.4	Transistor-MOSFET	4	0.014000	8	0.448000	3.402
6.11	OPTO-isolator	4	0.027000	8	0.864000	6.560
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.029
5.1	Linear Microcircuits	8	0.009500	10	0.760000	5.771
11.1	Transformer Switching	2	0.000610	3	0.003660	0.028
11.2	Coil Fixed inductor or choke	14	0.000032	3	0.001344	0.010
14.1	Switches-Thermal	1	0.031000	2	0.062000	0.471
15.1	Connector- Rectangular	2	0.050000	2	0.200000	1.519
17.1	Single Connections-Reflow solder	817	0.000069	1	0.056373	0.428
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.002
22.1	Fuses	1	0.010000	1	0.010000	0.076
16.1	Plated Through Hole Circuit Boards	2	0.022000	2	0.088000	0.668
Total Failure rate:					13.169737	100%

- Data Base: MIL-HDBK-217F ,Notice 2, Parts Count
- Env.: GB
- Exclude: FAN

MTBF: 75931.66 hrs

Approved by: Compiled by:

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